Environmental Toxicology and Water Quality

Subject Index to Volume 6

Acute lethality test (Munkittrick) 35
Acrylamide (Walker) 363
Acute exposure (Hickey) 383
Acute toxicity (Snell) 63
Acute toxicity (Walker) 363
Agar plate method (Liu) 437
Aldrin (Blessing) 371
Algae (Gaur) 341
Algal biomass (Castillo) 197
Algal growth inhibition (Poremba) 157
Allergy (Falconer) 177
Ames test (Lan) 1
Ammonium oxidation (Hansson) 351
Anabaena (Falconer) 177
Anabaena doliolum (Gaur) 341
Aquatic ecotoxicology (Blaise) 145
Aquatic toxicity (Walker) 363
Artemia salina (Kiviranta) 423
ATP (Rossel) 17
ATP-TOX test (Dutka) 309
Automic energy (Kauri) 109
Autotrophic index (Singh) 97

Bacillus cereus (Liu) 437
Bacterial bioassay (Pill) 271
Bacterial exopolymers (Kauri) 109
Bacterial identification (Horsnell) 329
Bacteriophages (Toranzos) 121
Battery of tests (Pill) 271
Battery of tests (Kupillas) 293
Battery of tests (Dutka) 309
Benodanil (Blessing) 371
Bioassay (Kiviranta) 423
Bioassay response (Dutka) 309
Biodegradation (Poremba) 157
Biodegradation technique (Liu) 85
Bioluminescence (Rychert) 415
Biomass (Lanza) 165
Biomass (Rossel) 17
Biomphalaria glabrata (Monkiedje) 405
Biosensors (Blaise) 145
Biosynthetic activity (Kupillas) 293
Bluegill (Walker) 363
Blue-green algae (Falconer) 177
Botulism toxin (Gophen) 77

Carcinogens (Lan) 1
Catalase activity (Datta) 239
Cell recovery (Hickey) 383
Chemical disturbances (Hansson) 351
Chemical mixtures (Blessing) 371
Chemical pollutants (Lanza) 165
Chemical toxicity (Pill) 271
Chlorinated ethanes (Pill) 271
Chlorinated organic compounds (Pill) 271
Chlorinated phenols (Pill) 271
Chlorination (Kromoredjo) 259
Chlorophenol biodegradation (Liu) 85
Chromium toxicity (Singh) 97
Chronic toxicity (Walker) 363
Coliform (Kromoredjo) 259
Coliforms (Geldreich) 209
Colilert test (Kromoredjo) 259
Coliphages (Castillo) 197
Coliphages (Hernández-Delgado) 131
Coliphages (Toranzos) 121
Cometabolism (Liu) 85
Community structure (Singh) 97
Contaminants (Lan) 1
CO_2 evolution (Rossel) 17
Cup plate assay (Blessing) 371
Cyanobacteria (Falconer) 177
Cyanobacterial blooms (Falconer) 177
Cyanobacterial toxins (Kiviranta) 423

Daphnia magna (Dutka) 309
Daphnia magna (Walker) 363
Daphnia test (Munkittrick) 35
Dehydrogenase activity (Rossel) 17
Desulfovibrio desulfuricans (Herrera) 225
Disinfection (Geldreich) 209
Diuron (Blessing) 371
Distribution (Jaghabir) 113
Dithiocarbamate (Hansson) 351
Drinking water (Geldreich) 209
Drinking water (Kromoredjo) 259

EC_{50} (Hickey) 383
EC_{50} (Walker) 363
ECHA dipstick test (Dutka) 309
ECK_{50} (Pill) 271

Ecotoxicity (Walker) 363
Ecotoxicological test (Rossel) 17
Effluent toxicity (Munkittrick) 35
Elimination (Jaghabir) 113
ENDOD-S (Monkiedje) 405
End-point responses (Hickey) 383
Enhanced biodegradation (Liu) 85
Enterococci (Hardina) 185
Environmental assessment (Blaise) 145
Environmental effects (Walker) 363
Environmental factors (Gaur) 341
Environmental stress (Horsnell) 329
Escherichia coli (Datta) 239
E. coli (Hardina) 185
E. coli (Kromoredjo) 259
Eserin (Blessing) 371
Esterase activity (Rossel) 17
Exposure (Walker) 363

Fathead minnow (Walker) 363
Faecal indicators (Castillo) 197
Fathead minnow test (Munkittrick) 35
Fecal coliforms (Hernández-Delgado) 131
Fecal coliforms (Toranzos) 121
Fecal contamination (Hernández-Delgado) 131
Fecal contamination (Toranzos) 121
Fecal indicator (Toranzos) 121
14_C uptake (Singh) 97

Gastroenteritis (Falconer) 177
Genotoxic substances (Lan) 1
Growth (Gaur) 341
Growth inhibition (Poremba) 157
Growth kinetics (Herrera) 225

Heavy metals (Blessing) 371
Heavy metals (Hickey) 383
Heavy metals (Singh) 97
Herbicide (Jaghabir) 113
Heterotrophic bacteria (Horsnell) 329
H_2S test (Kromoredjo) 259

IC_{50} (Monkiedje) 405
Identification scheme (Horsnell) 329
Imugan (Blessing) 371
Inactivation potential (Datta) 239
Indicator (Hernández-Delgado) 131
Indicator bacteria (Hardina) 185
Indonesia (Kromoredjo) 259
Industrial pollution (Lan) 1
Inhibition (Hansson) 351
Inhibition zone (Blessing) 371
Intracellular ATP (Hickey) 383
Intracellular ATP (Pill) 271
Intracellular ATP level (Kupillas) 293

Lake Kinneret (Gophen) 77
LC_{50} (Monkiedje) 405
LC_{50} (Snell) 63
LC_{50} (Walker) 363
Leachate toxicity (Munkittrick) 35
Legionella pneumophila (Dewailly) 249
Lipophilicity (Pill) 271
Liver (Falconer) 177
LTB + MUG (Kromoredjo) 259

Marsh heterotrophs (Horsnell) 329
Mechanism of toxicity (Kupillas) 293
Membrane integrity (Kupillas) 293
Mercury toxicity (Singh) 97
Metal fate (Kauri) 109
Microbial degradation (Liu) 85
Microbial enzyme activity (Lanza) 165
Microbial hydrolase (Lanza) 165
Microbial oxidoreductase (Lanza) 165
Microbial purification (Datta) 239
Microbial toxicity (Monkiedje) 405
Microbiotests (Blaise) 145
Microcystis (Falconer) 177
Microtesting procedures (Hickey) 383
Microtox (Munkittrick) 35
Microtox test (Poremba) 157
Microtox test (Rychert) 415
Microtox test (Snell) 63
Mine water (Herrera) 225
Molluscicide (Monkiedje) 405
Mouse bioassay (Kiviranta) 423
MPN (Castillo) 197
MSMA (Jaghabir) 113
Multiparameter toxicity text (Kupillas) 293
Multiple treatment barriers (Geldreich) 209
Mutagens (Lan) 1
Mutatox test (Dutka) 309
Mysidopsis bahia (Walker) 363
Mysidopsis bahia test (Snell) 63

Niclosamide (Monkiedje) 405
Nitrification (Hansson) 351
Nitrogen cycle (Hansson) 351
Nitrogenase activity (Singh) 97

Oil dispersants (Poremba) 157
Organic arsenic (Jaghabir) 113
Oxidative phosphorylation (Kupillas) 293

Paratanytarsus parthenogenetica (Walker) 363
Parathion (Blessing) 371
Pathogens (Geldreich) 209
Persistent chemical (Liu) 85
Pesticide (Blessing) 371
Pesticide (Liu) 85
Pesticides (Hansson) 351
Petroleum toxicity (Gaur) 341
Phenol (Hickey) 383
Photooxidation (Gaur) 341
Photosynthesis (Gaur) 341
Phytolacca dodecandra (Monkiedje) 405
Pigment diversity (Singh) 97
Plate count (Horsnell) 329
Plutonium exclusion (Kauri) 109
Plutonium uptake (Kauri) 109
Polymerase chain reaction (Toranzos) 121
Polyvinyl chloride (Lan) 1
Prodigiosin synthesis (Blessing) 371
Public health (Gophen) 77

Rabbits (Jaghabir) 113
Rainbow trout (Walker) 363
Rainbow trout test (Munkittrick) 35
Raw water (Geldreich) 209
Recombinant *e. coli* (Rychert) 415
Relative toxicity (Kupillas) 293
Respiration (Gaur) 341
Respiration rate (Pill) 271
Respiration rate (Kupillas) 293
Rotifer toxicity test (Snell) 63

Salmonella (Castillo) 197
Salmonella typhimurium (Kupillas) 293
Sand filtration (Datta) 239
Schistosoma mansoni (Monkiedje) 405
Screening test (Liu) 437
Sea urchin toxicity (Snell) 63
Sediment quality (Dutka) 309
Selenastrum capricornutum (Hickey) 383
Serratia marcescens (Blessing) 371
Short-term test (Blessing) 371
Short-term test (Hickey) 383
Shrimp biotest (Kiviranta) 423
Simazin (Blessing) 371
Sodium azide (Hickey) 383
Soil (Hardina) 185
Soil ecotoxicology (Lanza) 165
Soil microcosms (Lanza) 165
Soil microflora (Rossel) 17
SOS chromotest (Lan) 1
Specific growth rate (Pill) 271
Specific growth rate (Kupillas) 293
Spirochaeta aurantia (Pill) 271
Spirochaeta aurantia (Kupillas) 293
Stabilization ponds (Castillo) 197
Standard plate count (Datta) 239
Standardization of test (Snell) 63
Stormwater (Geldreich) 209
Stream (Hardina) 185
Sulfate-reducing bacteria (Herrera) 225
Sulfate removal (Herrera) 225
Surface water (Geldreich) 209
Surfactant (Poremba) 157

Tap water (Dewailly) 249
Tilapia nilotica (Monkiedje) 405
Total coliforms (Hernández-Delgado) 131
Toxic chemicals (Liu) 437
Toxicants (Rychert) 415
Toxicity (Falconer) 177
Toxicity (Hickey) 383
Toxicity (Lan) 1
Toxicity test comparison (Munkittrick) 35
Toxicity testing (Poremba) 157
Trans-uranic elements (Kauri) 109
Tributyltin (Rossel) 17
Tropical waters (Hernández-Delgado) 131
TSC Act (Walker) 363
Tumor promoter (Falconer) 177
2,4-D (Blessing) 371
2,4-dichlorophenol (Hickey) 383

Uptake (Jaghabir) 113

Wastewater (Geldreich) 209
Wastewater treatment (Castillo) 197
Water heaters (Dewailly) 249
Water pollution (Toranzos) 121
Water quality (Gophen) 77
Water quality (Hardina) 185
Water quality standard (Kromoredjo) 259
Watershed (Lan) 1
Watershed management (Gophen) 77
Water quality (Dutka) 309
Water standard (Hardina) 185
Water supply (Dewailly) 249
Water supply (Geldreich) 209

Environmental Toxicology and Water Quality

Author Index to Volume 6

Abdelghani, AA, see Jaghabir, MW
Alvarez, M, see Lan, Q
Anderson, AC, see Jaghabir, MW
See also Monkiedje, A
Arnold, RG, see Pill, KG
See also Kupillas, GE

Ben-Shlomo, M, see Gophen, M
Blaise, C,
Microbiotests in aquatic ecotoxicology: characteristics, utility, and prospects, 145
See also Hickey, CW
Blessing, B,
Influence of combined chemicals on prodigiosin synthesis of *Serratia marcescens*, 371

Castillo, GC,
Coliphages and other microbial indicators in stabilization ponds, 197
Chau, YK, see Liu, D
Chaudhuri, M, see Datta, AK
Cohen, A, see Gophen, M
Costan, G, see Hickey, CW

Datta, AK,
Microbial purification in slow sand filter, 239
Desjardins, RM, see Horsnell, GE
Dewailly, E,
Contamination of domestic water heaters with *Legionella pneumophila:* Impact of water temperature on growth and dissemination of the bacterium, 249
Dickman, M, see Lan, Q
Dotan, A, see Gophen, M
Dougherty, JM, see Lanza, GR
Dutka, BJ,
Use of bioassays to evaluate river water and sediment quality, 309
See also Liu, D

Englande, AJ, see Monkiedje, A

Falconer, IR,
Tumor promotion and liver injury caused by oral consumption of cyanobacteria, 177
Fujioka, RS, see Hardina, CM
Fujioka, RS, see Kromoredjo, P

Gantenbeim, S, see Herrera, L
Gaur, JP,
Regulatory influence of light and temperature on petroleum toxicity to *anabaena doliolum*, 341
Geldreich, EE,
Microbial water quality concerns for water supply use, 209
Gophen, M,
Implications of Botulism Outbreaks in Gulls (*Larus ridibundus*) on the Watershed Management of Lake Kinneret (Israel), 77
Grinberg, K, see Gophen, M
Gunkel, W, see Poremba, K

Hansson, G-B,
Testing the influence of chemicals on soil autotrophic ammonium oxidation, 351
Hardina, CM,
Soil: The environmental source of *Escherichia coli* and Enterococci in Hawaii's streams, 185
Hawkins, B, see Dutka, BJ
Hernández-Delgado, EA,
Coliphages as alternate indicators of fecal contamination in tropical waters, 131
Hernández, J, see Herrera, L
Herrera, L,
Desulfovibrio desulfuricans growth kinetics, 225
Hickey, CW,
Microtesting appraisal of ATP and cell recovery toxicity end points after acute exposure of *Selenastrum capricornutum* to selected ch[illegible]als, 383

Horsnell, GE,
Characterization of aerobic heterotrophic bacteria isolated from marshes, 329
Huovinen, K, see Kiviranta, J

Jaghabir, MW,
Absorption, Distribution, and Elimination of Arsenic in New Zealand White Rabbits (*Oryctalagus cuniculus*) Following Multiple Oral Doses of Monosodium Methane Arsonate, 113
Janssen, C, see Snell, TW
Joly, JR, see Dewailly, E
Jurkovic, A, see Dutka, BJ

Kauri, THT,
Uptake and Exclusion of Plutonium by Bacteria Isolated from Soil Near Nagasaki, Japan, 109
Kauri, THU, see Kauri THT
Kiviranta, J,
Detection of toxicity of cyanobacteria by *Artemia salina* bioassay, 423
Klemedtsson, L, see Hansson, G-B
Kromoredjo, P,
Evaluating three simple methods to assess the microbial quality of drinking water in Indonesia, 259
Kudo, A, see Kauri, THT
Kupillas, GE,
A multiparameter chemical toxicity test using *salmonella typhimurium* and *spirochaeta aurantia,* 293
See also Pill, KG
Kushner, DJ, see Kauri, THT
Kwan, KK, see Dutka, BJ
Kwasniewska, K, see Liu, D

Lan, Q,
Evidence of Genotoxic Substances in the Niagra River Watershed, 1
Lang, S, see Poremba, K
Lanza, GR,
Microbial enzyme activity and biomass relationships in soil ecotoxicology, 165
Liu, D,
Biodegradation of Recalcitrant Chlorophenols by Cometabolism, 85
A four-hour agar plate method for rapid toxicity assessment of water-soluble and water-insoluble chemicals, 437

McInnis, R, see Dutka, BJ
Maguire, RJ, see Liu, D
Moffat, BD, see Snell, TW
Monkiedje, A,
Acute toxicity of *Phytolacca dodecandra* (endod-s) and niclosamide to snails, *Schistosoma mansoni* cercaria, tilapia fish, and soil microorganisms, 405
Mortimer, M, see Rychert, R
Munkittrick, KR,
The Relative Sensitivity of Microtox®, Daphnid, Rainbow Trout, and Fathead Minnow Acute Lethality Tests, 35

Niemelä, SI, see Kiviranta, J
Nili, E, see Gophen, M

Ortenberg, Z, see Gophen, M

Pacepavicius, G, see Liu, D
Pagel, JE, see Horsnell, GE
Palmateer, GA, see Dutka, BJ
Persoone, G, see Snell TW
Picardal, FW, see Pill, KG
See also Kupillas, GE
Pill, KG,
Estimating the toxicity of chlorinated organic compounds using a multiparameter bacterial bioassay, 271
See also Kupillas, GE
Pokamunski, S, see Gophen, M
Poremba, K,
Toxicity testing of synthetic and biogenic surfactants on marine microorganisms, 157
Power, EA, see Munkittrick, KR

Rai, LC, see Singh, AK
Rao, SS, see Dutka, BJ
Rossel, D,
Dehydrogenase Activity of Soil Microflora: Significance in Ecotoxicological Tests, 17

Ruiz, P, see Herrera, L
Rychert, R,
Inhibition of bioluminescence in a recombinant *escherichia coli,* 415

Santry, DC, see Kauri, THT
Sergy, GA, see Munkittrick, KR
Seyfried, PL, see Horsnell, GE
Sierra, ML, see Hernández-Delgado, EA
Singh, AK,
Cr and Hg Toxicity Assessed *In Situ* Using the Structural and Functional Characteristics of Algal Communities, 97
See also Guar, JP
Sivonen, K, see Kiviranta, J
Snell, TW,
Acute Toxicity Tests Using Ritofers. III. Effects of Temperature, Strain, and Exposure Time on the Sensitivity of *Brachionus plicatilis,* 63
Süssmuth, R, see Blessing, B
Stenström, J, see Hansson, G-B

Tarradellas, J, see Rossel, D
Toranzos, GA,
Current and possible alternate indicators of fecal contamination in tropical waters: A short review, 121
See also Hernández-Delgado, EA
Torstensson, L, see Hansson, G-B
Trumper, BA, see Castillo, GC

Wagner, F, see Poremba, K
Walker, JD,
Ecological effects testing under the Toxic Substances Control Act: Acrylamide, 363
Wynne, D, see Gophen, M

Yawetz, A, see Gophen, M
Young, M, see Horsnell, GE

Zook-Rimon, Z, see Gophen, M